

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: io LED

Report Number: P397300

Luminaire Tested: **4VRVT3-LD5-6-G-UNV-LR63-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P397300
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1709-268-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: 4VRVT3-LD5-6-G-UNV-LR63-CD1-U
Description:
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

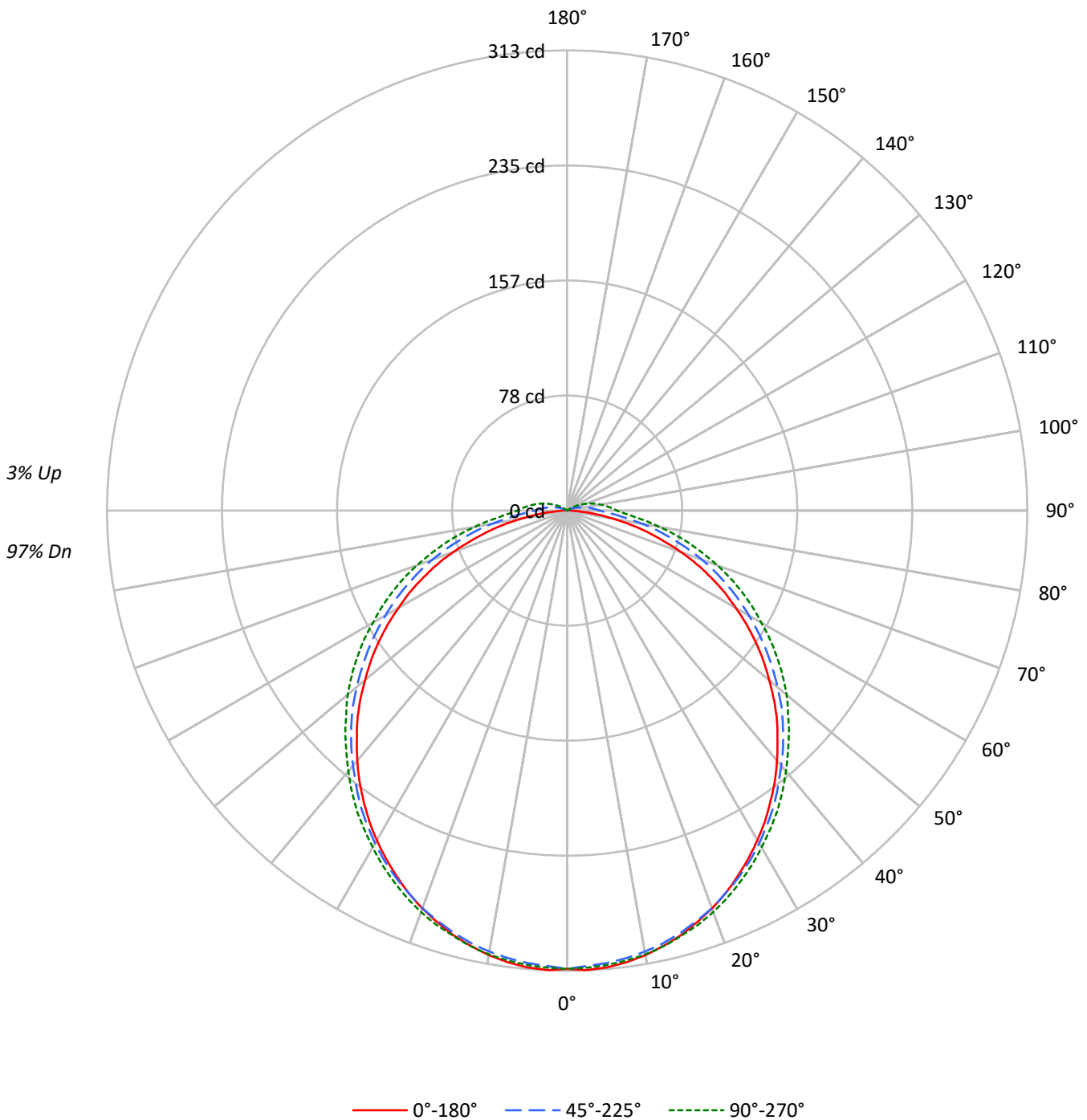
Lumens per Lamp: N/A
Luminaire Lumens: 965.3 lumens
Efficiency: N/A
Efficacy: 7.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.26 / 1.37
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 1.04')
CIE Type: Direct

Input Watts (W): 132.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	97
1	107	102	97	93	104	99	95	91	94	91	88	90	87	84	86	83	81	79
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	75	71	67	65
3	88	77	69	62	85	75	67	61	72	65	60	69	63	58	66	61	57	54
4	81	68	59	52	78	67	58	52	64	56	51	61	55	49	58	53	48	46
5	74	61	52	45	72	59	51	44	57	49	44	55	48	43	52	47	42	40
6	68	55	46	39	66	54	45	39	51	44	38	49	43	37	47	42	37	35
7	63	49	41	34	61	49	40	34	47	39	34	45	38	33	43	37	33	31
8	59	45	36	31	57	44	36	30	43	35	30	41	34	30	40	34	29	27
9	55	41	33	27	53	41	33	27	39	32	27	38	31	27	37	31	26	24
10	52	38	30	25	50	38	30	25	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2013	2013	2013
5°	1977	1711	1651
10°	1925	1486	1395
15°	1869	1306	1199
20°	1808	1156	1046
25°	1744	1028	917
30°	1678	916	807
35°	1609	816	715
40°	1537	724	630
45°	1463	642	557
50°	1376	565	492
55°	1288	491	430
60°	1179	421	369
65°	1060	354	315
70°	906	290	261
75°	712	222	208
80°	476	160	156
85°	214	105	112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	3.1
10°-20°	84.3	8.7
20°-30°	127.4	13.2
30°-40°	153.4	15.9
40°-50°	160.3	16.6
50°-60°	148.1	15.3
60°-70°	118.7	12.3
70°-80°	76.9	8.0
80°-90°	35.5	3.7
90°-100°	17.5	1.8
100°-110°	9.3	1.0
110°-120°	3.6	0.4
120°-130°	0.7	0.1
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	241.1	25.0
0°-40°	394.6	40.9
0°-60°	702.9	72.8
0°-90°	934.1	96.8
90°-120°	30.5	3.2
90°-150°	31.2	3.2
90°-180°	31.0	3.2
0°-180°	965.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	312	312	312	312	312	
5°	312	311	309	311	310	30
15°	299	299	297	300	300	84
25°	274	275	276	278	279	126
35°	241	243	245	248	249	151
45°	202	204	208	212	213	155
55°	157	160	165	171	174	140
65°	108	111	120	128	131	107
75°	56	63	74	83	86	60
85°	12	21	33	42	45	14
90°	3	11	22	31	34	2
95°	2	7	17	25	28	1
105°	1	1	8	16	18	1
115°	0	0	2	7	9	0
125°	0	0	0	1	2	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	311.7	311.7	311.7	311.7	311.7
2.5°	312.8	311.9	310.0	311.7	311.2
5°	311.9	311.0	308.9	310.8	310.3
7.5°	309.8	308.9	307.0	309.1	308.6
10°	307.0	306.3	304.6	306.5	306.5
12.5°	303.2	303.0	301.4	303.5	303.5
15°	299.0	298.8	297.4	299.7	299.5
17.5°	293.6	293.9	292.7	295.0	295.5
20°	288.0	288.0	287.8	290.1	290.6
22.5°	281.7	281.9	281.7	284.5	284.9
25°	274.4	275.1	275.6	278.1	278.6
27.5°	266.9	267.8	268.8	271.3	272.0
30°	258.9	259.6	261.3	264.1	264.5
32.5°	250.5	251.9	253.3	256.1	257.0
35°	241.3	243.0	245.1	247.9	249.3
37.5°	232.0	233.8	235.7	239.5	240.6
40°	222.1	224.2	226.5	230.1	231.5
42.5°	211.8	214.6	217.4	221.2	222.3
45°	201.9	204.3	207.6	211.5	213.4
47.5°	190.9	194.0	197.7	201.9	203.8
50°	179.4	182.7	186.9	191.8	194.9
52.5°	168.4	171.7	175.9	182.0	184.8
55°	156.9	160.4	165.3	171.4	174.5
57.5°	144.9	148.7	154.1	160.9	163.9
60°	132.5	136.5	142.8	150.3	152.4
62.5°	120.8	124.5	131.8	139.1	142.1
65°	108.1	111.4	120.3	128.0	131.3
67.5°	95.7	99.4	108.8	117.3	120.1
70°	82.3	87.0	97.6	105.3	108.6
72.5°	68.9	74.6	85.6	94.0	97.1
75°	56.3	63.3	73.6	82.6	86.1
77.5°	44.1	51.4	63.1	71.3	74.8
80°	31.7	40.3	51.8	60.3	63.6
82.5°	21.1	30.0	41.5	50.4	53.9
85°	11.5	21.1	33.1	41.7	44.8
87.5°	5.4	14.8	26.0	34.7	38.2
90°	2.6	10.6	22.0	30.7	33.8
92.5°	2.1	8.2	19.5	27.9	31.2
95°	1.6	6.6	16.9	25.3	28.4
97.5°	1.4	4.7	14.8	22.8	26.0
100°	1.2	3.3	12.4	20.4	23.2
102.5°	0.9	2.1	10.3	18.1	20.9
105°	0.7	1.4	8.4	15.5	18.3
107.5°	0.7	0.7	6.8	13.1	16.0
110°	0.5	0.5	4.9	11.0	13.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	0.5	3.5	8.9	11.0
115°	0.2	0.2	2.4	6.8	8.9
117.5°	0.2	0.2	1.4	5.2	6.8
120°	0.2	0.2	0.7	3.5	5.2
122.5°	0.2	0.2	0.2	2.4	3.5
125°	0.2	0.0	0.0	1.2	2.1
127.5°	0.0	0.0	0.0	0.5	1.2
130°	0.0	0.0	0.0	0.0	0.2
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)